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Engineering Application

The figure shows part of the support structure of the Statue of Liberty.

Use SAS to explain why $\triangle KPN \cong \triangle LPM$.

It is given that $\overline{KP} \cong \overline{LP}$
and that $\overline{NP} \cong \overline{MP}$.

By the Vertical Angles
Theorem, $\angle KPN \cong \angle LPM$.
Therefore $\triangle KPN \cong \triangle LPM$
by SAS.

